AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (previously presented) A system for supporting driving of a moving body comprising:

a plurality of imaging means installed on said moving body for taking camera images of the rear of said moving body; and

detection means for detecting movement of an object present in the rear of said moving body based on said camera images of said plurality of imaging means,

wherein said plurality of imaging means have, in camera images thereof, an overlap area that includes an area in the vicinity of a vanishing point and in which imaging areas of first imaging means and second imaging means overlap with each other,

said detection means obtains a stereo parallax between said first imaging means and said second imaging means in said overlap area, and obtains a distance to said object on the basis of said obtained stereo parallax, and

wherein said detection means detects flows corresponding to movement with time of an image in the imaging area of said first imaging means excluding said overlap area, and detects movement of said object present in the rear of said moving body on the basis of said detected flows.

2. (cancelled)

3. (original) The driving supporting system of Claim 1, further comprising image synthesizing means for generating an image representing the rear of said moving body through image synthesis using said camera images of said plurality of imaging means.

4. (original) The driving supporting system of Claim 1, further comprising:

danger level determining means for determining a possibility of collision of said moving body with an approaching object from the rear of said moving body on the basis of information output from said detection means and for outputting an indicator signal when it is determined that there is a strong possibility of the collision; and

external warning means for providing a warning to the rear of said moving body when said indicator signal is output form said danger level determining means.

5. (original) The driving supporting system of Claim 1, further comprising:

danger level determining means for determining a possibility of collision of said moving body with an approaching object from the rear of said moving body on the basis of information output from said detection means and for outputting an indicator signal when it is determined that there is a strong possibility of the collision; and

passenger protecting means for taking measure to protect a passenger of said moving body when said indicator signal is output from said danger level determining means.

6. (original) A system for supporting driving of a moving body comprising:

imaging means installed on said moving body for taking a camera image of a surrounding region of said moving body;

image generating means for converting said camera image of said imaging means into an image seen from a visual point positioned differently from said imaging means; and

detecting means for detecting a distance from said moving body to an object imaged in said camera image,

wherein said image generating means corrects distortion of an image of said object by using said distance detected by said detection means in converting said image.

7. (original) The driving supporting system of Claim 6,

wherein said imaging means is plural in number,

said plural imaging means have, in camera images thereof, an overlap area in which imaging areas of first imaging means and second imaging means overlap with each other, and

said detection means obtains a stereo parallax between said first imaging means and said second imaging means in said overlap area, and obtains a distance to said object on the basis of said obtained stereo parallax.

8. (original) The system for supporting driving of a moving body of Claim 6, wherein said detection means obtains a distance to said object on the basis of flows corresponding to movement with time of said camera image.

9. (original) A system for supporting driving of a moving body comprising:

imaging means installed on said moving body for taking a camera image of a surrounding region of said moving body; and

detection means for obtaining flows corresponding to movement with time on the basis of said camera image of said imaging means and for detecting movement of an object present in the surrounding region of said moving body on the basis of said flows,

wherein said detection means obtains, as preparation for detecting the movement of said object, an offset estimated value from each of said obtained flows and cancels said offset estimated value from each of said flows as a vibration component derived from jolt of said moving body.